

CDFG Project Evaluation and Monitoring

Treatment Type Code List – CRMEP 09/01/09 Draft

INSTREAM		HI		Instream Habitat Restoration
FL	Fish Ladder			
<u>110</u>	<u>Fishways (other)</u>	301	Log, rootwad, boulder	HI combinations
111	Step and pool fishway	320	Boulder/log combo constrictor	- single
112	Denil fishway (ladder)	325	Boulder/log combo constrictor	- opposing
113	Alaskan steep-pass	343	Boulder cluster with woody cover	
114	Back flooding weir associated with a fishway	302	Boulder structures (other)	
		310	Boulder weir	
		311	Boulder weir with sill log	
		312	Boulder cluster	
		313	Boulder wing-deflectors (constrictor)	- single
		314	Boulder wing-deflectors (constrictor)	- opposing
		315	Vortex boulder weir	
		342	Cover boulders (edge cover)	
		353	Boulder cluster field	- >5 clusters
		303	Log/rootwad structures (other)	
		330	Log weir	
		331	Log wing-deflectors (constrictor)	- single
		332	Log wing-deflectors (constrictor)	- opposing
		333	Single log structure (digger/cover log)	
		334	Divide logs	
		335	Multiple log structure (spider logs/cover log complex)	
		336	Hewitt ramp	
		337	Upsurge log weir	
		340	Cover root wads	
		341	Cover logs (horizontal)	
		344	Unanchored large woody debris	
		304	Instream improvement (other)	
		305	Removal of instream debris	
		306	Removal of instream vegetation	
		307	Removal of an instream structure	
		308	Channel reconstruction	
		309	Levee modification or removal	
		HS	Bank Stabilization	
		201	Log, rootwad, boulder	HS combinations (other)
		216	Boulder/log deflector	
		202	Boulder streambank stabilization structure	(other)
		211	Boulder riprap or bank armor	
		212	Boulder wing deflectors	
		203	Log streambank stabilization structure	(other)
		213	Log cribbing	
		214	Log bank armor	
		215	Log wing deflector	
		217	Tree revetments	
		210	Streambank stabilization structures	(other)
		270	Bioengineering (other)	
		271	Live vegetative crib wall	
		272	Native material revetment	
				If a log has a rootwad attached, comment.
FP	Fish Passage at Stream Crossings			
<u>120</u>	<u>Culvert modification (other)</u>			
121	Back flooding weir associated with a stream crossing			
122	Culvert baffles (other)			
123	Washington baffles			
124	Steel ramp CMP baffles			
<u>150</u>	<u>Fish passage improvement at stream crossings (other)</u>			
151	Bridge installation or replacement			
152	Embedded culvert installation or replacement			
153	Bottomless arch culvert installation or replacement			
154	Other culvert installation or replacement			
155	Grade control weirs associated with a HB structure			
156	Engineered roughened channel associated with an HB structure			
157	Stream crossing decommission for fish passage			
158	Engineered roughened channel <i>not</i> associated with an HB structure			
HB	Instream Barrier Modification			
<u>130</u>	<u>Barrier modification or removal (other)</u>			
131	Log jam modification or removal			
132	Beaver dam modification or removal			
133	Waterfalls & chutes - blasting modifications			
134	Landslide modification or removal			
135	Restoration structure modification or removal			
136	Artificial barrier modification or removal, non-stream crossing			
<u>160</u>	<u>Tide gate (other)</u>			
161	Tide gate modification or removal			
162	Tide installation or replacement			
SC	Fish screening of diversions			
<u>140</u>	<u>Fish screens (other)</u>			
141	Perforated plate			
142	Screened pump intake			
143	Tube screen			
144	Infiltration gallery			
145	Headgate/water control			
146	Boulder or back flooding weir associated with a diversion			
149	Perforated conical			
170	Streamflow gauge associated with a headgate or screen			

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HS Bank Stabilization (con't)

- 273 Live woven willow wall (willow wall
revetment)
- 274 Live willow brush mattress
- 275 Live willow siltation baffles
- 276 Live willow/cottonwood sprigging
- 277 Deep cluster planting

250 Checkdams (other*)

- 251 Redwood board checkdams
- 252 Brush and rock checkdam
- 253 Post brush checkdam
- 254 Tree checkdam
- 255 Brush and rock mattress headcut repair

WC Water Conservation Measures

360 Water conservation (other)

- 361 Water storage tank installation or replacement
- 362 Ditch lining
- 363 Ditch piping
- 364 Tailwater recovery/reuse
- 365 Irrigation efficiency (sprinkler/drip)

WD Water Measuring Devices

370 Install stream gauge

- 371 Water measuring device and/or weir

WP Water Purchase

380 Purchase water

381 Lease water

RIPARIAN

HR Riparian Restoration

230 Planting treatments (other)

- 231 Seeding
- 232 Sprigging/cuttings
- 233 Planting rooted container plants
- 234 Emergent plantings (rush, sedges, tules)
- 235 Planting plug container plants
- 236 Planting bare-rooted plants

240 Exclusion fencing

245 Instream stock water access

246 Off-stream stock water station

HA Habitat Acquisition and Conservation Easements

290 Habitat Acquisition

291 Habitat Lease

292 Conservation Easement

280 Vegetation Control (other)

- 281 Vegetation removal
- 306 Removal of instream vegetation

UPSLOPE

HU Watershed Restoration (Upslope)

250 Checkdams (other*)

- 251 Redwood board checkdams
- 252 Brush and rock checkdams
- 253 Post brush checkdams
- 254 Tree checkdams
- 255 Brush and rock mattress headcut repair

410 Upslope sediment delivery prevention (other)

- 411 Slope stabilization (other)
- 412 Dewater slide or gully
- 413 Slide toe stabilization
- 414 Sediment catchment basin
- 415 Upslope revegetation
- 416 Road fillslope/landing excavation
- 417 Landslide excavation

420 Road segment decommissioning (other)

- 421 Road segment decommissioning

430 Stream crossing decommissioning (other)

- 431 Stream crossing decommissioning

440 Road segment upgrading

- 441 Ditch relief culvert (DRC) installation
- 442 DRC armoring
- 443 DRC downspout installation
- 444 Rolling dip
- 445 Outsloping
- 446 Crowning
- 447 Outboard berm removal
- 448 Inboard ditch cleaning
- 449 Road rock surfacing

450 Stream crossing upgrading (other)

- 451 Upgrade to a bridge
- 452 Upgrade to a bottomless arch
- 453 Upgrade culvert pipe to pass Q100
- 454 Upgrade to dry armored crossing
- 455 Upgrade to wet armored crossing
- 456 Unarmored fill crossing or ford
- 457 Reposition culvert slope
- 458 Reposition culvert alignment

* checkdam codes may be used for either HS or HU project features.